Appendix Figure 2. MR image analysis form for quantitative and qualitative analysis of spine imaging

Reader: Patient number:

Analysis time: Start: End: Anatomical region: o CS o TS o LS

Quantitative analysis

(signal intensities (SI) of regions of interest (ROI*): mean value (MV) and standard deviation (SD))

Acquisition: corresponding to mean axial slice: Cervical spine – CVB (standard 4) _____; Thoracic spine – TVB _____; Lumbar spine – LVB _____

Spine imaging		T1 sag MV/SD	T2 sag MV/SD		T2 ax MV/SD height:
Air	0 1 Min/Max: 4/25 1 Mittelw/Std.abweichung 12.5/4/9 1 Flache: 0.26 g.cm 1 34 Pixel	/	/		/
Fat tissue	1 1 Min./Max:: 543/647 1 Mittelw/Std.abwetchung 6045/34.5 1 Plache: 0.17 q.cm 1 22 Pixel	/	/	€Ž	/
(autochthonous) Muscle	o ¹ 1 Min/Max.: 35 /33 1 Mittelw/Std.apweichung 61.4 /11.2 1 Fläche: 0.19 qcm 1 25 Fixel	/	/		/
Corticospinal fluid	1 Min./Max. 94 /455 1 Mittelw/5/0 abweichung 337.9 /1 08.8 1 Flache: 0.1 & q.cm 1 21 Pixel	/	/		/
Vertebral body	1 Min./Max: 1.22./232 1 Mittelw//Std abweichung 177/1/29,2 1 Fläche: 0.19 q.cm 1 24 Pixel	/	/	0 0	/
Spinal cord	1 Min /Max; 120/181 1 Mittellw/5td abwelchung 1520/13.9 1 Flache: 0.19 0 cm 1 24 Pivel	/	/	X	X
Gray matter of spinal cord (1) (not for LS)	X	X	X	ð ð	/
White matter of spinal cord (2) (not for LS)	X	X	X	g d	/

Contour clarity index: Gray matter - White matter - Corticospinal fluid - Vertebral body

^(*) Circular ROI, area of 0.02 - 0-04 cm²

Qualitative analysis

(1 = optimal, 2 = good, 3 = moderate, 4 = poor, 5 = non-diagnostic)

Spine imaging	T2 sag	T1 sag	T2 ax
Contrast			
Contour clarity			
Image quality			

(1 = none, 2 = minimal, 3 = moderate, 4 = major, 5 = non-diagnostic)

Spine imaging	T2 sag	T1 sag	T2 ax
Artifacts			
Noise			

Artifacts caused by: o Motion o Pulsation o Metal o Noise o Other